# A new species of the genus Leucorhynchia (Gastropoda, Turbinidae) from West Africa 

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#### Abstract

A new species of Leucorhynchia is described from Principe Island, West Africa. It is compared with $L$. lirata (E.A. Smith, 1871).


## INTRODUCTION

The genus Lencorhynchia Crosse, 1867 was considered of Indo-Pacific distribution until it was reported from the West African coast by Adam \& Knudsen (1969), who described a new species: Leucorhynchia bicarinata and figured two more species previously included in the genus Ethalia: Leucorhynchia plicata (Smith, 1871) and L. lirata (E.A. Sinith, 1871).

Rubio \& Rolán (1991) illustrated specimens of Lencorhynchia bicarinata and L. lirata collected in São Tomé and Principe, giving from the latter one drawing of the soft parts and SEM photographs of the protoconch and radula. At the same time they included in the same genus L. punctata (Jousseaume, 1872), previously placed in the genus Teinostoma A. Adams, 1853.

So far, there are four recognized species within the genus Lencorhynchia: L. caledonica Crosse, 1867 (type species of the genus), of Indo-Pacific distribution, the other three having a West African distribution: L. punctata Jousseaume, 1872, L. lirata (E.A. Smith, 1871) and L. bicarinata Adam \& Knudsen, 1969

In the sediments recently collected at the island of Príncipe by the Italian malacologist Sandro Gori, during a visit to the islands of São Tomé and Principe, some shells appeared to belong to a new species, which is described in the present work.

## SYSTEMATICS

Family TURBINIDAE Rafinesque, 1815
Subfamily SKENEINAE Clark, 1851
Genus Leucorhynchia Crosse, 1867
Type species: Leucorhynchia caledonica Crosse, 1867. Recent. New Caledonia.

Leucorhynchia gorii spec. nov.
Figs 6-7, 9, 11
Type material. Holotype (Fig. 7) dcposited in the Muséum National d'Histoire Naturelle, Paris (MNHN 24633). Paratypes: Museo de Ciencias Naturales of Madrid (MNCN 15.05/60001,1 shell) (Fig 6); Museo de Historia Natural de Santiago de Compostela (MHNS 100556, 1 shell); collection of Sandro Gori (1 shell).

Type locality. Tinhosa Pequena, 25 m , Island of Principe, Republic of São Tomé and Principe.

Distribution. Only known from the type locality.
Description. Shell minute, lenticular, solid, and cream in colour. Protoconch with only one smooth whorl and a diameter of 227-230 $\mu \mathrm{m}$. Teleoconch with a little over two whorls, almost lacking sculpture at the beginning, but on which some sulci shortly appear; they are undulating at first and after the first whorl are of circular shapc; they become more irregular and on the last half-whorl they turn into smooth cords, a little irregular, separated by spaces almost of a similar width and where it is possible to see under magnification, tubercles and lines in an axial direction are observed. In the ventral side there is a well opened umbilicus, within which there are four prominent spiral sulci. In the border of the umbilical infundibulum short axial ribs are formed. The spire ends in a circular and very regular aperture with a narrow and free peristome, which extends until getting in contact with the previous whorl.

Dimensions. Holotype 1.5 mm in diameter; paratypes are of a similar size.

Discussion. Lencorhynchia gorii spec. nov. shows an apparent similarity with L. lirata, bccause of its rounded form, its small protoconch, the beginning of the spiral sculpture with cords with depressions, which later disappear. But L. lirata has a larger shell (up to 3.5 mm , as opposed to 1.6 mm the new species may reach). The number of whorls in the teleoconch of an adult $L$. lirata is about $31 / 4$, while $L$. gorii has no more than $21 / 4$ whorls. The spiral whorls which form the sculpture of the teleoconch, after the first whorl, have smaller interspaces in L. lirata and wider in L. gorii. The most important difference between these two species is on the base where L. lirata has a very close umbilicus while that of $L$. gorii is wider showing the spiral cords on its inner part. The juveniles of $L$. lirata have a wider umbilicus but are similar in size to $L$. gorii; the aperture of $L$. lirata has quicker development and the umbilicus is bordered by very different elevated cords.

Etymology. The new species is named after Sandro Gori who collected the sediments where the shells were found.

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